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**From:** Smallbeck, Donald R. [donald.smallbeck@woodplc.com]  
**Sent:** 9/26/2018 4:11:05 PM  
**To:** d'Almeida, Carolyn K. [dAlmeida.Carolyn@epa.gov]; Davis, Eva [Davis.Eva@epa.gov]; 'Brasaemle, Karla' [KBrasaemle@TechLawInc.com]; Pearson, Stuart C. [stuart.pearson@woodplc.com]; 'Wayne Miller' [Miller.Wayne@azdeq.gov]; 'steve@uxopro.com' [steve@uxopro.com]; 'JERRARD, CATHERINE V CIV USAF HAF AFCEC/CIBW' [catherine.jerrard@us.af.mil]  
**Subject:** FW: 2018-8-28 - WAFB -ADEQ input -EPA Proposed benzene characterization Well Locations -7-3-2018 & 8-21-2018- ST012 pre-EBR-

fyi

**D.R. Smallbeck**  
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**wood.**

Amec Foster Wheeler and Wood Group are now Wood.

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**From:** William Hughes <William.Hughes@SpecProSvc.com>  
**Sent:** Wednesday, September 26, 2018 9:08 AM  
**To:** Smallbeck, Donald R. <donald.smallbeck@woodplc.com>; Pearson, Stuart C. <stuart.pearson@woodplc.com>  
**Subject:** FW: 2018-8-28 - WAFB -ADEQ input -EPA Proposed benzene characterization Well Locations -7-3-2018 & 8-21-2018- ST012 pre-EBR-

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**From:** JERRARD, CATHERINE V CIV USAF HAF AFCEC/CIBW [<mailto:catherine.jerrard@us.af.mil>]  
**Sent:** Wednesday, August 29, 2018 7:50 AM  
**To:** Smallbeck, Donald R. <[donald.smallbeck@woodplc.com](mailto:donald.smallbeck@woodplc.com)>; Pearson, Stuart C. <[stuart.pearson@woodplc.com](mailto:stuart.pearson@woodplc.com)>  
**Cc:** MOOK, PHILIP H JR GS-15 USAF AFCEC AFCEC/CIBW <[philip.mook@us.af.mil](mailto:philip.mook@us.af.mil)>; Geoff Watkin <[Geoff.Watkin@SpecProSvc.com](mailto:Geoff.Watkin@SpecProSvc.com)>; William Hughes <[William.Hughes@SpecProSvc.com](mailto:William.Hughes@SpecProSvc.com)>  
**Subject:** FW: 2018-8-28 - WAFB -ADEQ input -EPA Proposed benzene characterization Well Locations -7-3-2018 & 8-21-2018- ST012 pre-EBR-

Input from ADEQ below suggesting modifications to some of EPA's suggested well locations.

Cathy

//SIGNED//  
CATHY JERRARD, P.E., PMP  
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**From:** d'Almeida, Carolyn K. [<mailto:dAlmeida.Carolyn@epa.gov>]

**Sent:** Tuesday, August 28, 2018 1:38 PM

**To:** JERRARD, CATHERINE V CIV USAF HAF AFCEC/CIBW <[catherine.jerrard@us.af.mil](mailto:catherine.jerrard@us.af.mil)>

**Cc:** 'Wayne Miller' <[Miller.Wayne@azdeq.gov](mailto:Miller.Wayne@azdeq.gov)>; Davis, Eva <[Davis.Eva@epa.gov](mailto:Davis.Eva@epa.gov)>; 'Brasaemle, Karla' <[KBrasaemle@TechLawInc.com](mailto:KBrasaemle@TechLawInc.com)>

**Subject:** [Non-DoD Source] FW: 2018-8-28 - WAFB -ADEQ input -EPA Proposed benzene characterization Well Locations - 7-3-2018 & 8-21-2018- ST012 pre-EBR-

Hi Cathy

Please see the input below from ADEQ on the proposed locations for additional ST12 wells from our July 3 letter. Once you have an agreement in place we should schedule a call with the team to finalize the locations. Thank you for following up on this.

Carolyn d'Almeida  
Remedial Project Manager  
Federal Facilities Branch (SFD 8-1)  
US EPA Region 9 Laboratory  
1337 South 46<sup>th</sup> Street, Building 201  
Richmond, CA 94804  
(415) 972-3150

*"Because a waste is a terrible thing to mind..."*

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**From:** Wayne Miller [<mailto:Miller.Wayne@azdeq.gov>]

**Sent:** Tuesday, August 28, 2018 10:12 AM

**To:** d'Almeida, Carolyn K. <[dAlmeida.Carolyn@epa.gov](mailto:dAlmeida.Carolyn@epa.gov)>

**Cc:** steve <[steve@uxopro.com](mailto:steve@uxopro.com)>

**Subject:** 2018-8-28 - WAFB -ADEQ input -EPA Proposed benzene characterization Well Locations -7-3-2018 & 8-21-2018- ST012 pre-EBR-

Carolyn – Please find below ADEQ's input on EPA's requested benzene characterization well locations.

ADEQ and UXO Pro, Inc. reviewed the ST012 Containment Plan figures that were forwarded 8-21-2018 via email. The figures illustrate proposed wells that were referenced in a July 3, 2018 EPA-authored letter to Catherine Jerrard, AFCEC/CIBW, requesting U.S. Air Force *Demonstration of Hydraulic Containment at ST12 Fuels Spill Site, Former Williams Air Force Base, Mesa Arizona*. ADEQ received the letter copy 7-3-2018 via email.

ADEQ and UXO Pro, Inc. offer the following:

1. **Cobble Zone:** Location and prioritization are okay, with consideration to move EPA's priority #4 well southeast to the ST012 site's physical boundary to close a gap between offsite wells C02 and CZ24.
2. **UWBZ:** Wells 1, 2, and 4 prioritization is okay. Consider moving well #1 farther north. Alternatively, an UWBZ perimeter characterization well location could include a well or wells at the same locations as the downgradient CZ wells beyond CZ23. Given the increased concentrations in CZ23, one might expect a similar increase in the UWBZ here. Added wells may not be required east of Sossaman Road, if we consider wells RB-3A and U38 have been <1 ppb benzene since 2011 and UWBZ38 has been <1 ppb benzene since it was installed.

3. **LSZ:** Well locations 1, 2, and 5 are okay. Given the SB18 soil boring east of Sossaman Rd., an LSZ well at the sol boring SB18 location or farther downgradient (east) could be critical to close a data gap between LSZ45 and LSZ55. The Field Variance Memo 4, Attachment 4 could be used to support well installation justification.

Thanks.

Wayne Miller  
Waste Programs Division,  
Remedial Projects Section,  
Federal Projects Unit

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